

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: August 19, 2002, 19:26:11 ; Search time 20.61 Seconds

(without alignments)
196.132 Million cell updates/sec

Title: SEQ2-49N-51S

Perfect score: 874

Sequence: 1 MSYNLLGFLQRSSNFQCKQL.....RVEILRNFFYFINRLTGFLRN 166

Scoring table: BLOSUM62

Gapext 0.5

Searched: 231628 seqs, 24425594 residues

Total number of hits satisfying chosen parameters:

231628

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_AA.*

1: /cgn_6/picode/2/1aa/5A_COMB.pep:
 2: /cgn_6/picode/2/1aa/5B_COMB.pep:
 3: /cgn_6/picode/2/1aa/6A_COMB.pep:
 4: /cgn_6/picode/2/1aa/6B_COMB.pep:
 5: /cgn_6/picode/2/1aa/PCIVS_COMB.pep:
 6: /cgn_6/picode/2/1aa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	864	98.9	166	4 US-09-397-992A-7	Sequence 7, Appli
2	864	98.9	166	6 5514567-4	Patent No. 5514567
3	864	98.9	187	4 US-09-206-902A-9	Sequence 9, Appli
4	864	98.9	187	4 US-08-213-310A-1	Sequence 30, Appli
5	864	98.9	187	4 US-09-202-122-9	Sequence 9, Appli
6	864	98.9	187	4 US-09-206-945-7	Sequence 7, Appli
7	864	98.9	187	4 US-09-026-936-7	Sequence 7, Appli
8	864	98.9	187	6 5514567-1	Patent No. 5514567
9	862	98.6	166	2 US-08-47-758-22	Sequence 1, Appli
10	859	98.3	166	3 US-08-912-758-1	Sequence 1, Appli
11	859	98.3	166	3 PCT-US5-03206-1	Sequence 1, Appli
12	859	98.3	166	3 US-08-912-758-3	Sequence 3, Appli
13	859	98.3	187	3 US-08-026-758-22	Sequence 22, Appli
14	856	97.9	187	1 5326859-1	Patent No. 5326859
15	847	96.9	187	6 5510472-6	Patent No. 5510472
16	814	93.1	187	6 US-08-026-758-24	Sequence 16, Appli
17	804	92.0	166	1 US-08-362-453-16	Sequence 5, Appli
18	562	64.3	187	4 US-09-297-992A-5	Sequence 21, Appli
19	482.5	65.2	186	1 US-08-026-758-25	Sequence 25, Appli
20	451.5	51.7	186	1 US-08-026-758-26	Sequence 26, Appli
21	430.5	49.3	186	1 US-08-026-758-27	Sequence 24, Appli
22	364.5	41.7	186	1 US-08-026-758-23	Sequence 23, Appli
23	258.5	29.6	208	4 US-09-397-992A-5	Sequence 5, Appli
24	254.5	29.1	192	4 US-09-206-935-1	Sequence 27, Appli
25	254.5	29.1	193	4 US-09-397-992A-26	Sequence 26, Appli
26	254.5	29.1	193	4 US-09-397-992A-29	Sequence 29, Appli
27	254.5	29.1	193	4 US-09-206-903A-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1
US-09-397-992A-7
; Sequence 7, Application US/09397992A
; Patent No. 6329175
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kudyshev, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46
; CURRENT APPLICATION NUMBER: US/09/397,992A
; CURRENT FILING DATE: 1990-09-16
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-01-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSEQ For Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-397-992A-7

Query Match 98.9%; Score 864; DB 4; Length 166;
Best Local Similarity 98.8%; Pred. No. 1 4e-82;
Matches 164; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 M\$YNLGFQ\$RSNNFOCOKLQLNGRLFQ\$KEDAA\$TLY 60
Db 1 M\$YNLGFQ\$RSNNFOCOKLQLNGRLFQ\$KEDAA\$TLY 60
QY 61 EMLQNFIAFRQDSSSTGWNETVNLILANVYQINHUKTVLEEREDFTRGKLMSLL 120
Db 61 EMLQNFIAFRQDSSSTGWNETVNLILANVYQINHUKTVLEEREDFTRGKLMSLL 120
QY 121 HLRYYGRHLHYIKAKYSHCATIVRYEILRNFYFIRNLGTGLRN 166
Db 121 HLRYYGRHLHYIKAKYSHCATIVRYEILRNFYFIRNLGTGLRN 166
RESULT 2
5514567-4
; Patent No. 5514567
; APPLICANT: SUGANO, HARUO; MURAMATSU, MASAMI; TANIGUCHI,
; TADATSUBU

TITLE OF INVENTION: DNA AND RECOMBINANT PLASMID
 NUMBER OF SEQUENCES: 5
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/400, 179
 FILING DATE: 06-MAR-1995
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 389, 922
 FILING DATE: 18-JUN-1982
 APPLICATION NUMBER: 201, 359
 FILING DATE: 27-OCT-1980
 SEQ ID NO.: 5514567-4
 LENGTH: 166
 LENGTH: 166

Query	Match	Score	Best Local	Similarity	Pred.	DB	6;
			164;	98.9%; 98.8%	No.	1.4e-82	
	Matches	0;	Mismatches	164; Conservative			2
DY	1 M\$YNLLGFLQRSSINFOCQLLQKNGRLREYCLKD\$RMNFIDPEV	61 EMQNITAFRQDSSSTGWNETIVENLLANVYHOINHKTLY	1 M\$YNLLGFLQRSSINFOCQLLQKNGRLREYCLKD\$RMNFIDPEV	61 EMQNITAFRQDSSSTGWNETIVENLLANVYHOINHKTLY	1 M\$YNLLGFLQRSSINFOCQLLQKNGRLREYCLKD\$RMNFIDPEV	61 EMQNITAFRQDSSSTGWNETIVENLLANVYHOINHKTLY	1 M\$YNLLGFLQRSSINFOCQLLQKNGRLREYCLKD\$RMNFIDPEV
DD	1	61	1	61	1	61	1
DY	121 HKRYYGRILHYKAKEYSHCATIVRVEILRKFYEFINRLTG	121 HKRYYGRILHYKAKEYSHCATIVRVEILRKFYEFINRLTG	121 HKRYYGRILHYKAKEYSHCATIVRVEILRKFYEFINRLTG	121 HKRYYGRILHYKAKEYSHCATIVRVEILRKFYEFINRLTG	121 HKRYYGRILHYKAKEYSHCATIVRVEILRKFYEFINRLTG	121 HKRYYGRILHYKAKEYSHCATIVRVEILRKFYEFINRLTG	121 HKRYYGRILHYKAKEYSHCATIVRVEILRKFYEFINRLTG
DD	3	3	3	3	3	3	3

RESULT 3
 US/09/206-903A-9
 Sequence 9, Application US/09206903A
 : GENERAL INFORMATION:
 : Patent No. 6200780
 : CURRENT APPLICATION NUMBER: US/09/206, 903A
 : FILING DATE: 1998-12-07
 : PRIOR APPLICATION NUMBER: US 60/106, 463
 : PRIOR FILING DATE: 1998-10-30
 : NUMBER OF SEQ ID NOS: 12
 : SEQ ID NO 9
 : LENGTH: 187
 : TYPE: PRP
 : ORGANISM: Homo sapiens
 : FILE REFERENCE: P124-2R1
 : CURRENT APPLICATION NUMBER: US/09/206, 903A
 : FILING DATE: 1998-12-07
 : PRIOR APPLICATION NUMBER: US 60/106, 463
 : PRIOR FILING DATE: 1998-10-30
 : NUMBER OF SEQ ID NOS: 12
 : SEQ ID NO 9
 : LENGTH: 187
 : TYPE: PRP
 : ORGANISM: Homo sapiens

US-08-406-030A-30 Sequence 30, Application US/08406030A
 Patent No. 6270589 GENERAL INFORMATION:
 APPLICANT: Treco, Douglas A.
 APPLICANT: Hartlein, Michael W.
 APPLICANT: Haage, Brian M.
 APPLICANT: Selden, Richard F.
 TITLE OF INVENTION: Protein Product
 NUMBER OF SEQUENCES: 30
 COUNTRY: USA
 ADDRESS: Two Militia Drive
 STREET: Lexington
 CITY: Massachusetts
 STATE: USA
 ZIP: 02173
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/406,0
 FILING DATE: 17-MAR-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/243,3
 FILING DATE: 13-MAY-1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/985,5
 FILING DATE: 03-DEC-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/911,5
 FILING DATE: 10-JUL-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/787,8
 FILING DATE: 05-NOV-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/789,1
 FILING DATE: 05-NOV-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/US93/11
 FILING DATE: 02-DEC-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/US92/09
 FILING DATE: 05-NOV-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Granahan, Patricia
 REGISTRATION NUMBER: 32,227
 REFERENCE/DOCKET NUMBER: TKT95-
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 861-6240
 TELEFAX: (617) 861-9540
 INFORMATION FOR SEQ ID NO: 30:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 187 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-406-030A-30

Qy	1	M S Y N I L G F L O R S S N F Q C Q K L I W Q L N G R E L Y C I L K D R M N F D I P E E K Q L Q n F S K E D A L T Y	60
Ds	22	M S Y N I L G F L O R S S N F Q C Q K L I W Q L N G R E L Y C I L K D R M N F D I P E E K Q L Q F Q R E D A L T Y	81
Qy	61	E M O N I F A . F R Q D S S T S G W N T I V E N I L A N Y H Q I T N H L K T V J E E K L E K E D F P G K L M S S L . 1 2 0	

RESULT 5
US-09-202-122-9
Sequence 9, Application US/09202122
Patent No. 6299869
GENERAL INFORMATION:
APPLICANT: Chen, Jian
APPLICANT: Godowski, Paul
APPLICANT: Wood, William I.
TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
FILE REFERENCE: P1224R2 (filled)
CURRENT APPLICATION NUMBER: US/09/202-122
PRIOR APPLICATION NUMBER: PCT/US98/25672
PRIORITY FILING DATE: 1999-03-04
NUMBER OF SEQ ID NOS: 12
SEQ ID NO 9
LENGTH: 187
TYPE: PRT
ORGANISM: Homo sapiens
US-09-202-122-9

Query Match 98.9%; Score 864; DB 4; Length 187;
Best Local Similarity 98.8%; Pred. No. 1.6e-82; Indels 0; Gaps 0;

Matches 164; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 MSYNLIGFLQRSSNFCQKLLWQLNGRLLEYCQLDRMFNDIPEEKQLQNFsKEDDAALTY 60
Db 22 MSYNLIGFLQRSSNFCQKLLWQLNGRLLEYCQLDRMFNDIPEEKQLQOFQEDDAALTY 81

Qy 61 EMLONIFAFRQDSSSGNNETIVENLLANYHQINHLKTVEEKLKEKEDFTRGKLMSSL 120
Db 82 EMLONIFAFRQDSSSGNNETIVENLLANYHQINHLKTVEEKLKEKEDFTRGKLMSSL 141

RESULT 6
US-09-206-035-7
Sequence 7, Application US/09206935
Patent No. 6298977
GENERAL INFORMATION:
APPLICANT: Chen, Jian
APPLICANT: Godowski, Paul
APPLICANT: Wood, William I.
TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
FILE REFERENCE: 11669-305US05
CURRENT APPLICATION NUMBER: US/09/206-935
CURRENT FILING DATE: 1998-12-07
EARLIER APPLICATION NUMBER: 60/084,045
NUMBER OF SEQ ID NOS: 24
SEQ ID NO 7
LENGTH: 187
TYPE: PRT
ORGANISM: Homo sapiens
US-09-206-035-7

Query Match 98.9%; Score 864; DB 4; Length 187;
Best Local Similarity 98.8%; Pred. No. 1.6e-82;

Matches 164; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 MSYNLIGFLQRSSNFCQKLLWQLNGRLLEYCQLDRMFNDIPEEKQLQNFsKEDDAALTY 60
Db 22 MSYNLIGFLQRSSNFCQKLLWQLNGRLLEYCQLDRMFNDIPEEKQLQOFQEDDAALTY 81

Qy 61 EMLONIFAFRQDSSSGNNETIVENLLANYHQINHLKTVEEKLKEKEDFTRGKLMSSL 120
Db 82 EMLONIFAFRQDSSSGNNETIVENLLANYHQINHLKTVEEKLKEKEDFTRGKLMSSL 141

RESULT 8
5514567-1
Sequence 7, Application US/09206935
Patent No. 5514567
GENERAL INFORMATION:
APPLICANT: SUGANO, HARUO; MURAMATSU, MASAMI; TANIGUCHI,
TITLE OF INVENTION: DNA AND RECOMBINANT PLASMID
FILE REFERENCE: 11669-305US05
CURRENT APPLICATION NUMBER: 5
CURRENT FILING DATE: 18-JUN-1982
APPLICATION NUMBER: US/08/400,179
FILING DATE: 06-MAR-1995
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 389,922
FILING DATE: 18-JUN-1982
APPLICATION NUMBER: 201,359
FILING DATE: 27-OCT-1980
SEQ ID NO: 1;
LENGTH: 187

Query Match 98.9%; Score 864; DB 4; Length 187;
Best Local Similarity 98.8%; Pred. No. 1.6e-82;

Matches 164; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 121 HLKRYYGRILHYLKAKEYSHCANTIVVELRNFYFINRLTGYLRN 166
Db 142 HLKRYYGRILHYLKAKEYSHCANTIVVELRNFYFINRLTGYLRN 187

RESULT 9
TADASUGI
Sequence 7, Application US/09206935
Patent No. 5514567
GENERAL INFORMATION:
APPLICANT: SUGANO, HARUO; MURAMATSU, MASAMI; TANIGUCHI,
TITLE OF INVENTION: DNA AND RECOMBINANT PLASMID
FILE REFERENCE: 11669-305US05
CURRENT APPLICATION NUMBER: 5
CURRENT FILING DATE: 18-JUN-1982
APPLICATION NUMBER: US/08/400,179
FILING DATE: 06-MAR-1995
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 389,922
FILING DATE: 18-JUN-1982
APPLICATION NUMBER: 201,359
FILING DATE: 27-OCT-1980
SEQ ID NO: 1;
LENGTH: 187

Query Match 98.9%; Score 864; DB 4; Length 187;
Best Local Similarity 98.8%; Pred. No. 1.6e-82;

Matches 164; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 121 HLKRYYGRILHYLKAKEYSHCANTIVVELRNFYFINRLTGYLRN 166
Db 142 HLKRYYGRILHYLKAKEYSHCANTIVVELRNFYFINRLTGYLRN 187

Query Match 98.9%; Score 864; DB 6; Length 187;
 Best Local Similarity 98.8%; Pred. No. 1.6e-82;
 Matches 164; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 MSYNLGFQRSNSNFOCQLLWOLNGLREYCLDKDRMFNDFIPEEKQLQDFSKEDAAALTY 60
 Db 22 MSYNLGFQRSNSNFOCQLLWOLNGLREYCLDKDRMFNDFIPEEKQLQDFSKEDAAALTY 81

Qy 61 EMLQNIFAIFRQDSSSTGNNETIVENLLANYHQINHLKTVEELKEDEDFTRGKLMSSL 120
 Db 82 EMLQNIFAIFRQDSSSTGNNETIVENLLANYHQINHLKTVEELKEDEDFTRGKLMSSL 141

Qy 121 HLKRYGRILHYLAKKEYSHCAWTIVRVEILRNFYFINRLTGYLRN 166
 Db 142 HLKRYGRILHYLAKKEYSHCAWTIVRVEILRNFYFINRLTGYLRN 187

RESULT 9
 Sequence 1, Application US/08477310A
 Patent No. 5814485

GENERAL INFORMATION:
 APPLICANT: Dorin, Glenn
 APPLICANT: McAlary, Patrick J.
 APPLICANT: Wong, Kathleen M.
 TITLE OF INVENTION: Bacterial Production of Hydrophobic
 Polypeptides

TITLE OF INVENTION: Polypeptides

NUMBER OF SEQUENCES: 3

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Chiron Corporation
 STREET: 4560 Horton Street
 CITY: Emeryville
 STATE: California
 COUNTRY: U.S.A.
 ZIP: 94608

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patient Release #1.0, Version #1.30

APPLICATION DATA:
 APPLICATION NUMBER: US/08/477,310A
 FILING DATE: 06-JUN-1995
 CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
 NAME: Chung, Ling-Fong
 REGISTRATION NUMBER: 36,482
 REFERENCE/DOCKET NUMBER: 960.001
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (510) 923-2704
 TELEFAX: (510) 655-3542

INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 166 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: protein

US-08-477-310A-1

Query Match 98.6%; Score 862; DB 2; Length 166;
 Best Local Similarity 98.2%; Pred. No. 2.2e-82;
 Matches 163; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 MSYNLGFQRSNSNFOCQLLWOLNGLREYCLDKDRMFNDFIPEEKQLQDFSKEDAAALTY 60
 Db 1 MSYNLGFQRSNSNFOCQLLWOLNGLREYCLDKDRMFNDFIPEEKQLQDFSKEDAAALTY 60

Qy 61 EMLQNIFAIFRQDSSSTGNNETIVENLLANYHQINHLKTVEELKEDEDFTRGKLMSSL 120
 Db 61 EMLQNIFAIFRQDSSSTGNNETIVENLLANYHQINHLKTVEELKEDEDFTRGKLMSSL 120

Qy 61 HLKRYGRILHYLAKKEYSHCAWTIVRVEILRNFYFINRLTGYLRN 166
 Db 61 HLKRYGRILHYLAKKEYSHCAWTIVRVEILRNFYFINRLTGYLRN 166

RESULT 11
 US-08-912-768-1
 Sequence 1, Application US/08912768
 Patent No. 6127332
 GENERAL INFORMATION:

APPLICANT: Goelz, Susan E
 APPLICANT: Cate, Richard L
 APPLICANT: Pepinsky, Blake R
 APPLICANT: Chow, Pingchang E
 TITLE OF INVENTION: No. 6127332el Muteins Of IFN-Beta
 NUMBER OF SEQUENCES: 5
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: James F. Haley, Jr.
 STREET: Fish & Neave, 1251 Avenue of the Americas
 CITY: New York
 STATE: New York
 COUNTRY: USA
 ZIP: 10020-1104
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US95/03206
 FILING DATE:
 CLASSIFICATION:
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: 08/475,774
 FILING DATE:
 REFERENCE/DOCKET NUMBER: B179
 TELECOMMUNICATION INFORMATION:
 NAME: Haley Jr., James F.
 REGISTRATION NUMBER: 27,794
 REFERENCE/DOCKET NUMBER: B179
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 596-9000
 TELEFAX: (212) 596-9090
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 166 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPology: linear
 MOLECULE TYPE: protein
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 US-08-912-768-1

Query Match 98.3%; Score 859; DB 3; Length 166;
 Best Local Similarity 98.2%; Pred. No. 4.e-82;
 Matches 163; Conservative 3; Indels 0; Gaps 0;

Qy 1 MSYNLGFLOSSNFQCKLWQLNGRLCYLKDRMNFDPPEIKQLQSKEDAALTY 60
 Db 1 MSYNLGFLOSSNFQCKLWQLNGRLCYLKDRMNFDPPEIKQLQSKEDAALTY 60

Qy 61 EMLQNIFAIFFQDSSSTGWNNTIVENLLANYHQINHLKTVLEEKEDFTRGKLMSSL 120
 Db 61 EMLQNIFAIFFQDSSSTGWNNTIVENLLANYHQINHLKTVLEEKEDFTRGKLMSSL 120

Qy 121 HKRYYGRILHYLAKEYSHCAWTIVRVELRNFYFIRLTGYNR 166
 Db 121 HKRYYGRILHYLAKEYSHCAWTIVRVELRNFYFIRLTGYNR 166

RESULT 12 PCT-US95-03206-1
 Sequence 1, Application PC/T0S9503206
 GENERAL INFORMATION:
 APPLICANT: Biogen, Inc.
 APPLICANT: Goelz, Susan E
 APPLICANT: Cate, Richard L
 APPLICANT: Pepinsky, Blake R
 APPLICANT: Chow, Pingchang E
 TITLE OF INVENTION: Novel Muteins Of IFN-Beta
 NUMBER OF SEQUENCES: 4
 CORRESPONDENCE ADDRESS:

ADDRESSEE: James F. Haley, Jr.
 STREET: Fish & Neave, 1251 Avenue of the Americas
 CITY: New York
 STATE: New York
 ZIP: 10020-1104
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible

ATTORNEY/AGENT INFORMATION:
 NAME: Haley Jr., James F.
 REGISTRATION NUMBER: 27,794
 REFERENCE/DOCKET NUMBER: B179
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 596-9000
 TELEFAX: (212) 596-9090
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 166 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 PCT-US95-03206-1

Query Match 98.3%; Score 859; DB 5; Length 166;
 Best Local Similarity 98.2%; Pred. No. 4.e-82;
 Matches 163; Conservative 3; Indels 0; Gaps 0;

Qy 1 MSYNLGFLOSSNFQCKLWQLNGRLCYLKDRMNFDPPEIKQLQSKEDAALTY 60
 Db 1 MSYNLGFLOSSNFQCKLWQLNGRLCYLKDRMNFDPPEIKQLQSKEDAALTY 60

Qy 61 EMLQNIFAIFFQDSSSTGWNNTIVENLLANYHQINHLKTVLEEKEDFTRGKLMSSL 120
 Db 61 EMLQNIFAIFFQDSSSTGWNNTIVENLLANYHQINHLKTVLEEKEDFTRGKLMSSL 120

Qy 121 HKRYYGRILHYLAKEYSHCAWTIVRVELRNFYFIRLTGYNR 166
 Db 121 HKRYYGRILHYLAKEYSHCAWTIVRVELRNFYFIRLTGYNR 166

RESULT 13 US-08-912-768-3
 Sequence 3, Application US/08912768
 ; PatenT No. 6127332
 ; GENERAL INFORMATION:
 ; APPLICANT: Goelz, Susan E
 ; APPLICANT: Cate, Richard L
 ; APPLICANT: Pepinsky, Blake R
 ; APPLICANT: Chow, Pingchang E
 ; TITLE OF INVENTION: No. 6127332el Muteins Of IFN-Beta
 ; NUMBER OF SEQUENCES: 5
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: James F. Haley, Jr.
 ; STREET: Fish & Neave, 1251 Avenue of the Americas
 ; CITY: New York
 ; STATE: New York
 ; ZIP: 10020-1104
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.125
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/912,768
 FILING DATE:
 CLASSIFICATION:
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: 08/475,774
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Haley Jr., James F.
 REGISTRATION NUMBER: 27,794
 REFERENCE/DOCKET NUMBER: B179
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 596-9000
 TELEFAX: (212) 596-9090
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 187 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-912-768-3

Query Match 98.3%; Score 859; DB 3; Length 187;
 Best Local Similarity 98.2%; Pred. No. 5.4e-82;
 Matches 163; Indels 0; Gaps 0;

QY 1 MSYNLGFLOSSNFOCQLLWQLNGRLCYLKDRMFNDIPEEIKQLQnFSKEDAAALTY 60
 Db 22 MSYNLGFLOSSNFOCQLLWQLNGRLCYLKDRMFNDIPEEIKQLQnFSKEDAAALTY 81

QY 61 EMLQNIAIFRQDSSSTGWNNTIVENLLANYHQINHLKTYLEEKLEKEDFTRGKLSSL 120
 Db 82 EMLQNIAIFRQDSSSTGWNNTIVENLLANYHQINHLKTYLEEKLEKEDFTRGKLSSL 141

QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILLRNFYFINRLTGYLRN 166
 Db 142 HLKRYGRILHYLKAKEYSHCAWTIVRVEILLRNFYFINRLTGYLRN 187

RESULT 14
 US-08-026-758-22
 Sequence 22, Application US/08026758
 Patent No. 5780021
 GENERAL INFORMATION:
 APPLICANT: SOBEL, DOUGLAS O.
 TITLE OF INVENTION: A METHOD FOR TREATING AUTOIMMUNE
 DISEASES USING ALPHA-INTERFERON AND/OR BETA-INTERFERON
 NUMBER OF SEQUENCES: 26
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: OBLON, SPITAK, MCCLELLAND, MAYER & NEUSTADT,
 STREET: 1755 S. Jefferson Davis Highway, Suite 400
 CITY: Arlington
 STATE: Virginia
 COUNTRY: U.S.A.
 ZIP: 22202
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/026,758
 FILING DATE: 1998/03/05
 CLASIFICATION: 424
 ATTORNEY/AGENT INFORMATION:
 NAME: Oblon, N. 5780021man F.
 REGISTRATION NUMBER: 24,618
 REFERENCE/DOCKET NUMBER: 1126-096-0
 TELECOMMUNICATION INFORMATION:

TELEPHONE: (703) 413-3000
 TELEFAX: (703) 413-2220
 TELEX: 248855 OPAT UR
 INFORMATION FOR SEQ ID NO: 22:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 187 amino acids
 TYPE: amino acid
 TOPOLOGY: unknown
 MOLECULE TYPE: protein
 FEATURE:
 NAME/KEY: Protein
 LOCATION: 22..187
 OTHER INFORMATION: /note= "Hu-IFN-beta"

US-08-026-758-22

Query Match 97.9%; Score 856; DB 1; Length 187;
 Best Local Similarity 98.2%; Pred. No. 1.1e-81;
 Matches 163; Indels 0; Gaps 0;

Qy 1 MSYNLGFLOSSNFOCQLLWQLNGRLCYLKDRMFNDIPEEIKQLQnFSKEDAAALTY 60
 Db 22 MSYNLGFLOSSNFOCQLLWQLNGRLCYLKDRMFNDIPEEIKQLQnFSKEDAAALTY 81

Qy 61 EMLQNIAIFRQDSSSTGWNNTIVENLLANYHQINHLKTYLEEKLEKEDFTRGKLSSL 120
 Db 82 EMLQNIAIFRQDSSSTGWNNTIVENLLANYHQINHLKTYLEEKLEKEDFTRGKLSSL 141

Qy 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILLRNFYFINRLTGYLRN 166
 Db 142 HLKRYGRILHYLKAKEYSHCAWTIVRVEILLRNFYFINRLTGYLRN 187

RESULT 15
 5326859-1
 ; Patent No. 5326859
 ; APPLICANT: Sugano, Haruo; Muramatsu, Masami; Taniguchi, Tadatsugu
 ; TITLE OF INVENTION: DNA AND RECOMBINANT PLASMID
 ; NUMBER OF SEQUENCES: 3
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/06/2011,359
 ; FILING DATE: 27-OCT-1980
 ; SEQ ID NO.1:
 ; LENGTH:187
 5326859-1

Query Match 96.9%; Score 847; DB 6; Length 187;
 Best Local Similarity 97.0%; Pred. No. 9.6e-81;
 Matches 161; Indels 0; Gaps 0;

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 Db 22 MSYNLGFLOSSNFOCQLLWQLNGRLCYLKDRMFNDIPEEIKQLQnFSKEDAAALTY 81

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Qy 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILLRNFYFINRLTGYLRN 166
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Search completed: August 19, 2002, 19:30:01
 Job time: 230 sec